

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/091,529	03/07/2002	Brett J. Hamilton	N.C. 83337	8381
DIRECTOR STRATEGIC SYSTEMS PROGRAMS ATTN: Darrell E. Hollis, Code SPLe-4 Room 10041 287 Somers Court N.W. Washington, DC 20393-5446			EXAMINER	
			NGO, NGAN V	
			ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 10/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	10/091,529			
	10/031,023	HAMILTON, BRETT J.		
Office Action Summary	Examiner	Art Unit		
	Ngan Ngo	2814		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status	·			
 1) Responsive to communication(s) filed on 19 At 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
 4) Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) 8 is/are withdrawn from 5) Claim(s) 4,10 and 11 is/are allowed. 6) Claim(s) 1-3,5-7 and 9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	om consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the orange Replacement drawing sheet(s) including the correction of the orange representation is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 0302. Patent and Trademark Office				

The election filed August 17, 2004 has been entered and made of record as paper no. 0804.

Applicant's election with traverse of claims 1-7 and 9-11 in the reply filed on August 17, 2004 is acknowledged. The traversal is on the ground(s) that the "method of claim 8 cannot be practiced on any other circuit board than on a magnetically shield circuit board". This is not found persuasive because the device in claim 1 is a magnetically shield circuit board but can be made by processes different from the processes in claim 8. See the office action mailed July 7, 2004. Applicant has not responsed directly to the Examiner's arguments mailed July 7, 2004

The requirement is still deemed proper and is therefore made FINAL.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/091,529

Art Unit: 2814

Claims 1-3 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Harvey et al.

Harvey disclosed a magnetically shielded circuit board comprising a circuit board (12), a conductive solenoid (16 and 18) being imbedded in and around the circuit board. The conductive solenoid is inherently received electrical current from a power supply.

Note line 52 of column 1, lines 22-23 of column 5, and figures 17 and 18 of Harvey.

In re claim 2, figure 19 of Harvey clearly shows the integrated circuit package on the magnetically shielded circuit board.

In re claim 9, the abstract of Harvey clearly discloses that the "inductive component can be manufactured as part of the integrated circuit" and therefore the integrated circuit chip and the solenoid can be formed in the same package.

Claims 1 and 3 are alternatively rejected under 35 U.S.C. 102(e) as being anticipated by Golan.

Golan discloses a magnetically shielded circuit board comprising a circuit board (21), a conductive solenoid (12) being imbedded in and around the circuit board. The conductive solenoid is inherently received electrical current from a power supply. Note paragraphs [0002], [0057], and [0066] and figures 3 and 4 of Golan.

Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harvey et al in view of Zens.

Harvey discloses all the subject matter discussed above. However, Harvey does not disclose about superconductive solenoid. Zens discloses on lines 25 and 26 of column 1 that the solenoid can be superconductive. Therefore, it would have been

Art Unit: 2814

obvious to one of ordinary skill in the art to use superconductive material in Harvey's device to improve the conductivity of the solenoid as taught by Zens.

In re claims 6 and 7, no patentable weight is given to Applicant's intended use of the device in claims drawn to structure. See Ex parte Minks, 169 USPQ 120 and In re

Pearson, 181 USPQ 642.

Claims 4, 10 and 11 are allowed.

Paper copies of cited U.S. patents and U.S. patent application publications will cease to be mailed to applicants with Office actions as of June 2004. Paper copies of foreign patents and non-patent literature will continue to be included with office actions. These cited U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, all U.S. patents and patent application publications are available on the USPTO web site (www.uspto.gov), from the Office of Public Records and from commercial sources. Applicants are referred to the Electronic Business Center (EBC) at http://www.uspto.gov/ebc/index.html or 1-866-217-9197 for information on this policy. Requests to restart a period for response due to a missing U.S. patent or patent application publications will not be granted.

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (571) 272-1711. The fax number for the Art unit is (703) 308-7722.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Art Unit: 2814

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ngan Van Ngo Primary Examiner

Ngan Ngo

October 15, 2004